

**IN THE UNITED STATES PATENT AND TRADEMARK OFFICE**

In re Patent Application of )

Vassilios PAPADOPOULOS, et al. )

Application No. 09/047,652 )

Filed: March 25, 1998 )

For: PERIPHERAL-TYPE BENZODIAZEPINE )  
RECEPTOR: A TOOL FOR DETECTION, )  
DIAGNOSIS, PROGNOSIS, AND )  
TREATMENT OF HUMAN BREAST )  
CANCER )



Group Art Unit: 1642

Examiner: M. Davis

15/108  
SUGP  
11/200

**REPLY AND AMENDMENTS PURSUANT TO 37 C.F.R. §§ 1.111 AND 1.115**

Assistant Commissioner for Patents  
Washington, DC 20231

Sir:

In response to the Office Action [non-final rejection] mailed on April 12, 2000, kindly  
amend the above-identified application as follows:

**IN THE CLAIMS:**

Kindly cancel claims ~~48-52~~ and substitute the following claims therefor.

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--53. An isolated, biologically pure antisense oligonucleotide that possesses a  
complementary structure to at least a portion of the peripheral-type benzodiazepine receptor  
(PBR) are having the nucleic acid sequence contained in SEQ ID NO: 1 or SEQ ID NO: 2  
wherein said oligonucleotide, when introduced into a cell line that expresses said PBR gene  
inhibits the expression thereof, and thereby inhibits proliferation of said cell line relative to  
an otherwise identical cell line which does not comprise said antisense oligonucleotide.

54. The antisense oligonucleotide of claim 53, which possesses a complementary  
structure to at least a portion of the nucleic acid sequence contained in SEQ ID NO: 1.